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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,508A

DATE: 07/10/2002

TIME: 13:19:41

Input Set : A:\1533\_0830003 sub seqlist.ST25.txt

Output Set: N:\CRF3\07102002\I903508A.raw

3 <110> APPLICANT: Abbas, Charles  
4 Voronovsky, Andrii  
5 Kshanovska, Barbara  
6 Fayura, Liubov  
7 Sibirna, Kateryna  
8 Sibirny, Andrii  
9 Dmytruk, Kostiantyn  
11 <120> TITLE OF INVENTION: Transformation Systems for Flavinogenic Yeast  
13 <130> FILE REFERENCE: 1533.0830003  
15 <140> CURRENT APPLICATION NUMBER: US 09/903,508A  
C--> 16 <141> CURRENT FILING DATE: 2002-06-26  
18 <150> PRIOR APPLICATION NUMBER: US 60/218,244  
19 <151> PRIOR FILING DATE: 2000-07-14  
21 <150> PRIOR APPLICATION NUMBER: US 60/288,491  
22 <151> PRIOR FILING DATE: 2001-05-04  
24 <150> PRIOR APPLICATION NUMBER: US 60/290,667  
25 <151> PRIOR FILING DATE: 2001-05-15  
27 <160> NUMBER OF SEQ ID NOS: 3  
29 <170> SOFTWARE: PatentIn version 3.1  
31 <210> SEQ ID NO: 1  
32 <211> LENGTH: 1493  
33 <212> TYPE: DNA  
34 <213> ORGANISM: Candida famata  
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40 <223> OTHER INFORMATION: May be any nucleotide  
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52 <223> OTHER INFORMATION: May be any nucleotide  
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62 <221> NAME/KEY: misc\_feature  
63 <222> LOCATION: (1084)..(1084)  
64 <223> OTHER INFORMATION: May be any nucleotide

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67 <220> FEATURE:  
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70 <223> OTHER INFORMATION: May be any nucleotide  
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76 <223> OTHER INFORMATION: May be any nucleotide  
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80 <221> NAME/KEY: misc\_feature  
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82 <223> OTHER INFORMATION: May be any nucleotide  
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86 <221> NAME/KEY: misc\_feature  
87 <222> LOCATION: (1223)..(1223)  
88 <223> OTHER INFORMATION: May be any nucleotide  
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92 <221> NAME/KEY: misc\_feature  
93 <222> LOCATION: (1226)..(1226)  
94 <223> OTHER INFORMATION: May be any nucleotide  
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100 <223> OTHER INFORMATION: May be any nucleotide  
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105 <222> LOCATION: (1268)..(1268)  
106 <223> OTHER INFORMATION: May be any nucleotide  
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112 <223> OTHER INFORMATION: May be any nucleotide  
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117 <222> LOCATION: (1318)..(1318)  
118 <223> OTHER INFORMATION: May be any nucleotide  
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124 <223> OTHER INFORMATION: May be any nucleotide  
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130 <223> OTHER INFORMATION: May be any nucleotide  
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134 <221> NAME/KEY: misc\_feature  
135 <222> LOCATION: (1379)..(1379)  
136 <223> OTHER INFORMATION: May be any nucleotide  
139 <220> FEATURE:

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140 <221> NAME/KEY: misc\_feature  
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147 <222> LOCATION: (1385)..(1385)  
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152 <221> NAME/KEY: misc\_feature  
153 <222> LOCATION: (1391)..(1391)  
154 <223> OTHER INFORMATION: May be any nucleotide  
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158 <221> NAME/KEY: misc\_feature  
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160 <223> OTHER INFORMATION: May be any nucleotide  
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165 <222> LOCATION: (1424)..(1424)  
166 <223> OTHER INFORMATION: May be any nucleotide  
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172 <223> OTHER INFORMATION: May be any nucleotide  
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177 <222> LOCATION: (1435)..(1435)  
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189 <222> LOCATION: (1447)..(1447)  
190 <223> OTHER INFORMATION: May be any nucleotide  
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195 <222> LOCATION: (1457)..(1457)  
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201 <222> LOCATION: (1459)..(1459)  
202 <223> OTHER INFORMATION: May be any nucleotide  
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206 <221> NAME/KEY: misc\_feature  
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208 <223> OTHER INFORMATION: May be any nucleotide  
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212 <221> NAME/KEY: misc\_feature

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218 cttgactgat tacgaattcg agctcggtag ccggggatca tgaatgctag tctttttaca 60  
220 ctgaatattt ttttaacgat tttttaataa ttttgcaatc atttaagaaa aaccacaaat 120  
222 ggttttccaa aatttaaaatt gatttttttag aaagtcctaa aaaatagaat cataccaaat 180  
224 aaagaacaac ttaaagtcac tatgacaaat tcagaaatac aatcgtatga tccgttcattg 240  
226 gataaagctg caaagtcaca agcaaggcta actaagatcc tctaggggga tctctagag 300  
228 tcgactacgt cgttaaggcc gtttctgaca gagtaaaatt cttgagggaa ctttcaccat 360  
230 tatgggaaat ggttcaagaa ggtattgact taaactccat caaatggtca ggtcattgag 420  
232 tgttttttat ttgttgattt tttttttttt tagagaaaat cctccaatat ataaattagg 480  
234 aatcatagtt tcatgatttt tagagaaaat cctccaatat ataaattagg aatcatagtt 540  
W--> 236 tcatgatttt ctgttacacc taactttttg tgtgngccc tcctccttgt caatattaat 600  
W--> 238 ctgttacacc taactttttg tgtgngccc tcctccttgt caatattaat gttaaagtgc 660  
240 aattcttttt cttatcacg ttgagccatt agtatcaatt gttaaagtgc aattcttttt 720  
242 cttatcacg ttgagccatt agtatcaatt tgcttacctg tttccttta catcctcctt 780  
244 tttctccttc ttgataaatg tgcttacctg tttccttta catcctcctt tttctccttc 840  
246 ttgataaatg tatgtagatt gcgtatatag tttcgtctac cctatgaaca tattccattt 900  
248 tatgtagatt gcgtatatag tttcgtctac cctatgaaca tattccattt tgtaatttcg 960  
W--> 250 tgtcgnntct attatgaatt tcatttataa aggttatgtn tgtaatttcg ggcgtttcta 1020  
252 ttatgaattt catttataaa gtttatgtcc aatatcataa aaaaagagaa tctttttaag 1080  
W--> 254 caanggattt ctttaactcaa atatcataaa aaaagagaat ctttttaagc aagggaattt 1140  
W--> 256 ctttaactnt tcggggagcg atccccgctt cgngggactg gtggaccctt aaatcctntc 1200  
W--> 258 ggcgacagca tcccgacttc gnggnactg tggaaccctt aaatcccagt ntgatcctgc 1260  
W--> 260 ttccaaanct tttactggtn ttcatggggc taccaccagt ctgaacctgc atccaaanct 1320  
W--> 262 tttactgctc ttcaagggct taccttntca ggcagggtcaa tgacaattca catcntgcnc 1380  
W--> 264 anacnaaaaa nggcttttca gcagggtcaan gcaatttcac atcntgcnc aaaaanagtt 1440  
W--> 266 ggcgatnggg tgacctntnt ttggcaacga tngggtgacc tatntttgca aac 1493  
269 <210> SEQ ID NO: 2  
270 <211> LENGTH: 414  
271 <212> TYPE: DNA  
272 <213> ORGANISM: Pichia guilliermondii  
274 <400> SEQUENCE: 2  
275 tatgcacatt cgcacgccga ggtgcagcgt ttaggcgcgg ctcaacggaa gccaacggcc 60  
277 gccacaaatt gtccggaaag tcgccgaaac tgatccactg gtaccacagc ccataagaa 120  
279 ccccctttta tattaaaaac cgttcttcag ccacttttga tcacattgtt tgcagccgcc 180  
281 cgttgcgtgc atccaaacac cacgcgtccc ccgcaccctt ttacggtgcc cactgcattg 240  
283 gaatttgcat aaaacagcct cacgaagtgg attaatTTTT agagcactca agtcatcatg 300  
285 ctgcaatctc tgcattcatg aatgactccc gttgatacag ggaactcaga ccgcaagcgg 360  
287 cgaagagtca caagagcgtg tgatgtgtgt cgactctaga ggatccccgg gtac 414  
290 <210> SEQ ID NO: 3  
291 <211> LENGTH: 487  
292 <212> TYPE: DNA  
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295 <220> FEATURE:  
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297 <222> LOCATION: (415)..(415)  
298 <223> OTHER INFORMATION: May be any nucleotide  
301 <400> SEQUENCE: 3

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302 tgattacgaa ttcgagctcg gtacccgggg atcatgaatg ctagtctttt tacactgaat 60
304 attttttttaa cgatttttta ataattttgc aatcatttaa gaaaaaccac aaatggtttt 120
306 ccaaaattta aattgatttt ttagaaagtc ctaaaaaata gaatcatacc aaataaagaa 180
308 caacttaaag tcactatgac aaattcagaa atacaatcgt atgatccgtt catggataaa 240
310 gctgcaaagt cacaagcaag gctaactaag atcctctaga gtcgactacg tcgttaaggc 300
312 cgtttctgac agagtaaaat tcttgaggga actttcacca ttatgggaaa tggttcaaga 360
W--> 314 aggtattgac ttaaactcca tcaaatgggc aggtcattga gtgtttttta tttgntgtat 420
316 tttttttttt ttagagaaaa tcctccaata tataaattag gaatcatagt ttcatgattt 480
318 tctgtta 487
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/903,508A

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Input Set : A:\1533\_0830003 sub seqlist.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 576,626,966,1000,1084,1149,1174,1197,1223,1226,1251,1268  
Seq#:1; N Pos. 1280,1318,1347,1375,1379,1382,1385,1391,1410,1424,1428,1435  
Seq#:1; N Pos. 1437,1447,1457,1459,1472,1484  
Seq#:3; N Pos. 415

VERIFICATION SUMMARY

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Input Set : A:\1533\_0830003 sub seqlist.ST25.txt

Output Set: N:\CRF3\07102002\I903508A.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540  
 L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:600  
 L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:960  
 L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1080  
 L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1140  
 L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1200  
 L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1260  
 L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1320  
 L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1380  
 L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1440  
 L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360